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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/678,025	10/04/2000	Toru Koizumi	35.C14850	5647	
5514	7590 10/20/200	•	EXAM	EXAMINER	
	ICK CELLA HARP	KAO, CHIH CHENG G			
	ELLER PLAZA , NY 10112		ART UNIT	PAPER NUMBER	
	,		2882		

Please find below and/or attached an Office communication concerning this application or proceeding.

			9hr			
	Application No.	Applicant(s)				
	09/678,025	KOIZUMI, TORU				
Office Action Summary	Examiner	Art Unit				
	Chih-Cheng Glen Kao	2882				
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet with	the correspondence add	lress			
A SHORTENED STATUTORY PERÍOD FOR REF THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory peri - Failure to reply within the set or extended period for reply will, by sta Any reply received by the Office later than three months after the ma earned patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a repreply within the statutory minimum of thirty od will apply and will expire SIX (6) MONTI tute, cause the application to become ABA	oly be timely filed (30) days will be considered timely. HS from the mailing date of this con NDONED (35 U.S.C. § 133).	nmunication.			
Status						
1) Responsive to communication(s) filed on 29) July 2004.					
2a)⊠ This action is FINAL . 2b)□ T	his action is non-final.					
3) Since this application is in condition for allow	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice unde	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) Claim(s) 2 and 9-15 is/are pending in the ap	pplication.					
4a) Of the above claim(s) is/are withd	rawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>2 and 9-15</u> is/are rejected.						
· · · · · · · · · · · · · · · · · · ·	—					
8) Claim(s) are subject to restriction and	d/or election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10) \boxtimes The drawing(s) filed on <u>20 February 2003</u> is/are: a) \boxtimes accepted or b) \square objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the	Examiner. Note the attached	Office Action or form PTC	D-152.			
Priority under 35 U.S.C. § 119			:			
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage 						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
A440.a.h.m.o.a.4/o.\						
Attachment(s) 1) Notice of References Cited (PTO-892)	A) 🗖 intention of	mmon/ (PTO 442)				
 Notice of References Cited (PTO-992) Notice of Draftsperson's Patent Drawing Review (PTO-948) 		Mail Date				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date	5) Notice of Info 6) Other:	ormal Patent Application (PTO-	152)			

DETAILED ACTION

Claim Objections

1. Claim 2 is objected to because of the following informality, which appears to be a minor draft error creating lack of antecedent basis problems: (claim 2, lines 11-12, "the three functions"). This objection may be obviated by deleting "the" in the above-recited phrase. For purposes of examination, the claim has been treated as such. Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 2, 9, 10, 13, and 15 are rejected under 35 U.S.C. 102(b) as being anticipated by Takahashi (US Patent 5955753).
- 3. Regarding claim 2, Takahashi discloses a solid-state image pickup device (Fig. 1) comprising at least one unit cell having a photoelectric conversion portion (Fig. 1, #1), an amplifying means (Fig. 1, #5), a transfer means (Fig. 1, #3), a reset means (Fig. 1, #4), and a selecting means (Fig. 1, #6) for selecting said amplifying means and outputting an amplified signal to a signal output line (Fig. 1, line from #6 to #7), wherein the signal output line and a line (Fig. 1, #4 and ϕR_0) having at least one function of three functions of a selection control line for

controlling said selecting means, a transfer control line for controlling said transfer means, and a reset control line for controlling said reset means, comprise a single common line in a single unit cell or between two adjoining cells.

- 4. Regarding claim 9, Takahashi further discloses a noise and optical signal read out (col. 4, line 67) when selecting means are turned on.
- 5. Regarding claim 10, Takahashi further discloses unit cells arranged in a two-dimensional matrix (Fig. 1).
- 6. Regarding claim 13, Takahashi further discloses wherein the photoelectric conversion portion, amplifying means, transfer means, reset means, and selecting means are all of the same conductivity type (Fig. 1).
- 7. Regarding claim 15, Takahashi further discloses each unit cell comprising a plurality of photoelectric conversions portions (Fig. 2) connected to a common amplifying transistor (Fig. 2, #5).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person

having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

8. Claims 11 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Takahashi as applied to claim 2 above, and further in view of Yonemoto (US Patent 5894325).

9. Regarding claim 11, Takahashi discloses a device as recited above.

However, Takahashi does not disclose a power line between two unit cells.

Yonemoto teaches a power line between two unit cells (Fig. 1, #14).

It would have been obvious, to one having ordinary skill in the art at the time the invention was made, to modify the device of Takahashi with the power line of Yonemoto, since one would be motivated to incorporate it to power all cells from just one source for more compactness (Fig. 1) as implied from Yonemoto.

10. Regarding claim 12, Takahashi discloses a device as recited above.

However, Takahashi does not disclose an image pickup system comprising a pickup device, optical system, and signal processing circuit.

Yonemoto teaches an image pickup system (Fig. 9) comprising a pickup device (Fig. 9, #91), an optical system (Fig. 9, #92), and a signal processing circuit (Fig. 9, #97).

It would have been obvious, to one having ordinary skill in the art at the time the invention was made, to modify the device of Takahashi with the image pickup system of Yonemoto, since one would be motivated to incorporate this to better capture signals in a video (col. 8, lines 40-41) as implied from Yonemoto.

11. Claim 14 is rejected under 35 U.S.C. 103(a) as being unpatentable over Takahashi as applied to claim 2 above, and further in view of Gowda et al. (US Patent 5898168).

Takahashi discloses a device as recited above.

However, Takahashi does not disclose a common line functioning as a selection and transfer control line.

Gowda et al. teaches a common line functioning as a selection and transfer control line (Fig. 3B, #22 and RSL_i, and col. 4, lines 20-28).

It would have been obvious, to one having ordinary skill in the art at the time the invention was made, to modify the device of Takahashi with the common line functioning as a selection and transfer control line of Gowda et al., since one would be motivated to incorporate this to eliminate the separate selection line as implied from Gowda et al. (col. 4, lines 20-28).

Response to Arguments

12. Applicant's arguments filed July 29, 2004, have been fully considered but they are not persuasive.

Regarding claim 2, Applicant argues that Takahashi neither discloses nor suggests the signal output line and a line having at least one function of the three functions of a selection control line for controlling the selection means, a transfer control line for controlling the transfer means, and a reset control line for controlling the reset means, comprise a single common line in a single unit cell or between two adjoining unit cells. The Examiner disagrees for the following reason. The Examiner has interpreted the above recitation as the signal output line comprising a single common line in a single unit cell or between two adjoining cells and a line having at least

one function of the three functions of a selection control line for controlling the selection means, a transfer control line for controlling the transfer means, and a reset control line for controlling the reset means, comprising a single common line in a single unit cell or between two adjoining unit cells. Takahashi discloses the signal output line (Fig. 1, line from #6 to #7) comprising a single common line in a single unit cell or between two adjoining cells and a line (Fig. 1, #4 and ϕR_0) having at least one function of the three functions of a selection control line for controlling the selection means, a transfer control line for controlling the transfer means, and a reset control line for controlling the reset means, comprising a single common line in a single unit cell or between two adjoining unit cells. Thus, Takahashi discloses the above recitation, and at least claim 2 remains rejected.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Application/Control Number: 09/678,025

Art Unit: 2882

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Chih-Cheng Glen Kao whose telephone number is (571) 272-

2492. The examiner can normally be reached on M - F (9 am to 5 pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Ed Glick can be reached on (571) 272-2490. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

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gk

EDWARD O. GLICK

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